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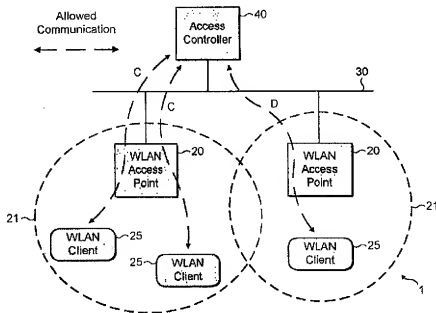
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[Continued on next page]

(54) Title: SECURITY IN AREA NETWORKS



(57) Abstract: The invention provides an access point device arranged to receive data packets from one or more client devices and transmit them along a public area network characterised wherein the access point device comprises security means arranged to consider the source/destination of data packets and control the forwarding/discarding of a data packet according to whether the data packet originates from a client device and is destined for a client device.



**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

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22 May 2003

## INTERNATIONAL SEARCH REPORT

 Int. nat. Application No  
 PCT/GB 02/02561

 A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H04L29/06 H04L12/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 52575 A (PACKET TECHNOLOGIES LTD ;DANIELY GAD (IL)) 8 September 2000 (2000-09-08) abstract; figure 1B	1-4, 24, 35-39
Y	page 8, line 3 - page 10, line 2 page 10, line 14 - page 11, line 16 page 14, line 3 - line 18	5-8
X	WO 01 37517 A (WAYPORT INC) 25 May 2001 (2001-05-25)	28, 29
Y	abstract; figures 1, 4 page 1, line 38 - page 2, line 27 page 3, line 3 - line 33 page 4, line 34 - page 5, line 11 page 10, line 3 - line 27	5-8

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categorization of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

4 November 2002

Date of mailing of the international search report

05.02.03

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Authorized officer

Figiel, B

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 02/02561**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)**

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-8, 24, 28-29, 35-39

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-8,24,28-29,35-39

security means is configured to send a reply packet back to the client

2. Claims: 9-12,30-33

security means is arranged to provide mapping information to the client

3. Claims: 13,34

security means is arranged to accept a unicast reply from a client

4. Claims: 14-18,21-23

security means is configured to modify the data packet

5. Claims: 19-20

security means is configured to analyse the differing transmission forms

6. Claims: 25,26

security means is arranged to monitor the volume of the transmission

7. Claim : 27

security means is configured to accept non-standard protocol and configure it into industry standard

## INTERNATIONAL SEARCH REPORT

Information on patent family members

In International Application No

PCT/GB 02/02561

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0052575	A	08-09-2000	AU 2570400 A WO 0052575 A1	21-09-2000 08-09-2000
WO 0137517	A	25-05-2001	AU 2750001 A AU 7831600 A EP 1226697 A2 WO 0133797 A2 WO 0137517 A2 US 2002022483 A1	30-05-2001 14-05-2001 31-07-2002 10-05-2001 25-05-2001 21-02-2002